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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604329N: Small Diameter Bomb (SDB)							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	18.918	43.717	44.091	0.000	44.091	74.918	37.598	42.912	39.964	Continuing	Continuing
3072: Small Diameter Bomb (SDB)	18.918	43.717	44.091	0.000	44.091	74.918	37.598	42.912	39.964	Continuing	Continuing

**Note**  
In FY 2010, funding for Hard Target Void Sensing Fuze (HTVSF) and Joint Surface Warfare (JSuW) have been moved to PE 0604659N, PU 3214 and PU 3215, respectively.

**A. Mission Description and Budget Item Justification**  
Small Diameter Bomb (SDB) Increment II is an ACAT ID program providing the warfighter a capability to attack mobile targets in all weather from Stand-Off. The Air Force is the executive service. SDB Increment II addresses the following warfighter requirements: attack mobile targets; multiple kills per pass; multiple ordnance carriage; all weather operations; near-precision munitions capability; capability against fixed targets; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; reduced susceptibility of munitions to countermeasures; and a migration path to net centric ops capability. Threshold aircraft is the F-15E for the Air Force and F-35 B and F-35 C for the Navy. Objective aircraft include the F/A-22, B-1, B-2, F-117, F-16, B-52, Predator B, and F/A-18 E/F . SDB II must be operable on the Miniature Munitions Smart Rack BRU-61/A . This rack is currently in production in the USAF, but has never been qualified to DoN environments, nor flown internally in any variant of F-35. Efforts include a Dual Power modification, ensuring adequate power supplied to BRU-61 to meet the SDBII operating environment. SDB Increment II will continue incremental development to pursue network CENTRIC interoperability. SDB increment II is a key component of the Air Force's Global Strike Task Force CONOP.

Navy funding will provide for risk reduction activities, participation in common efforts, F-35B and F-35C integration efforts, to include Operational Flight Plan (OFP) development, and development and evaluation of Navy-unique and interoperability requirements, to include BRU-61/A efforts. Navy SDB II Initial Operating Capability is scheduled for FY 2016 on JSF Short Take-Off Vertical Landing (STOVL) F-35B and Navy Variant (F-35C) aircraft. Additionally, FY 2009 and prior year Navy funding is provided to conduct weapons data link message development and testing through Joint Capability Technology Demonstration (JCTD) efforts to achieve risk reduction efforts and weapons interoperability. The Joint Surface Warfare (JSuW) is one current JCTD being conducted to analyze weapons data link message development.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)		PE 0604329N: Small Diameter Bomb (SDB)			
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	19.485	43.902	0.000	0.000	0.000
Current President's Budget	18.918	43.717	44.091	0.000	44.091
Total Adjustments	-0.567	-0.185	44.091	0.000	44.091
• Congressional General Reductions		-0.182			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	-0.003			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.567	0.000			
• Program Adjustments	0.000	0.000	44.091	0.000	44.091
Change Summary Explanation					
Technical: Ship Suitability is more accurately defined as the BRU-61/A efforts. Included in those are the Dual Power and SDB II Qualification efforts.					
Schedule: As a result in the delay of the approved Acquisition Strategy the following milestones have changed : Milestone B from 1Q FY10 to 2Q FY10, Critical Design Review (CDR) from 1Q FY10 to 3Q FY10, EMD Downselect from 1Q FY10 to 2Q FY10 and Engineering Manufacturing and Development (EMD) from 1Q FY10 to 2Q FY10. Additionally, System Development and Demonstration changed terminology to EMD per new DoDI 5000.02 instruction.					
FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Navy								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604329N: <i>Small Diameter Bomb (SDB)</i>				<b>PROJECT</b> 3072: <i>Small Diameter Bomb (SDB)</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
3072: <i>Small Diameter Bomb (SDB)</i>	18.918	43.717	44.091	0.000	44.091	74.918	37.598	42.912	39.964	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
<b>A. Mission Description and Budget Item Justification</b> Small Diameter Bomb (SDB) Increment II is an ACAT ID program providing the warfighter a capability to attack mobile targets in all weather from Stand-Off. The Air Force is the executive service. SDB Increment II addresses the following warfighter requirements: attack mobile targets; multiple kills per pass; multiple ordnance carriage; all weather operations; near-precision munitions capability; capability against fixed targets; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; reduced susceptibility of munitions to countermeasures; and a migration path to net centric ops capability. Threshold aircraft is the F-15E for the Air Force and F-35 B and F-35 C for the Navy. Objective aircraft include the F/A-22, B-1, B-2, F-117, F-16, B-52, Predator B, and F/A-18 E/F . SDB II must be operable on the Miniature Munitions Smart Rack BRU-61/A . This rack is currently in production in the USAF, but has never been qualified to DoN environments, nor flown internally in any variant of F-35. Efforts include a Dual Power modification, ensuring adequate power supplied to BRU-61 to meet the SDBII operating environment. SDB Increment II will continue incremental development to pursue network CENTRIC interoperability. SDB increment II is a key component of the Air Force's Global Strike Task Force CONOP.											
<b>B. Accomplishments/Planned Program (\$ in Millions)</b>											
						<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>	
Contractor Risk Reduction						2.380	0.000	0.000	0.000	0.000	
Funding provides for SDB risk reduction efforts.  <i>FY 2009 Accomplishments:</i> Participate in the 42-month risk reduction phase with Boeing and Raytheon. The Navy's participation is to ensure Navy-unique requirements are included in SDB II design and development and to understand interoperability requirements.											
Conduct Weapon Data Link Testing/JSUW/HTVSF						9.900	0.000	0.000	0.000	0.000	

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604329N: Small Diameter Bomb (SDB)		PROJECT 3072: Small Diameter Bomb (SDB)	
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Funding provides for Joint Surface Warfare (JSuW) and Hard Target Void Sensing Fuze (HTVSF) weapon data link testing.  FY 2009 Accomplishments: Conduct Weapons Data Link message development and testing. This will facilitate the incorporation of these new message sets into the JSF when the aircraft becomes available. In FY09, funding is provided to accomplish JSuW efforts and HTVSF efforts. Both efforts will enhance Strike Warfare survivability in development of Small Diameter Bomb II.					
SDB II Weapon Support and Integration  Funding provides for design, development, integration and testing of SDB for the F35 B and C.  FY 2009 Accomplishments: Government and Support Contractor participation in risk reduction activities to include Seeker and Other Trade Studies, Joint Strike Fighter fit checks, Shipboard Suitability, Electromagnetic Environmental Effects, System Safety, Climatic/Dynamic Environments, catapulted/arrested landings testing, multiple weapon carriage system requirements, and other risk reduction activities. Efforts include F-35 Lockheed Martin and JPO support of SDB II integration on JSF OFP Block 3.X. 3.X was created to ensure SDB II would maintain its FY16 IOC date.  FY 2010 Plans: Support SDB II Prime contractor source selection and Engineering Manufacturing Development (EMD); begin integration of SDB II with JSF B and C, to include wind tunnel testing and BRU-61/A efforts.  FY 2011 Base Plans: Continue support of EMD; integration of SDB II with JSF B and C.	6.638	43.717	44.091	0.000	44.091
Accomplishments/Planned Programs Subtotals	18.918	43.717	44.091	0.000	44.091

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• WPN/223800: Small Diameter Bomb II	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.341	898.500	914.841
• 0604329F: Small Diameter Bomb	122.568	155.415	153.505	0.000	153.505	162.393	128.606	69.545	68.529	0.000	1,115.894
• MPAF/0207327F: Small Diameter Bomb	0.000	0.000	0.000	0.000	0.000	0.000	39.408	57.122	74.184	1,583.416	1,754.130
D. Acquisition Strategy											
The SDB Increment II acquisition strategy is to conduct a full and open competition to select up to two contractors to compete during a planned 42-month risk reduction phase prior to entering EMD. This competition began April 17, 2006 with the signature of contracts to the competing contractors: 1) Raytheon and 2) the team of Boeing and Lockheed Martin. An EMD and Production Fixed Price-type contract is planned to be awarded in FY 2010.											
The Navy funding will support Navy-unique efforts for SDB Increment II, such as aircraft integration, ship suitability, studies and analysis, and program management and government in-house support. These efforts will be performed on several cost-type contracts or through cost reimbursable work requests to government activities and contractors.											
E. Performance Metrics											
Earned Value Management (EVM) will be implemented on the EMD contract with the winning weapon contractor after Milestone B, currently scheduled for April 2010.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604329N: Small Diameter Bomb (SDB)				PROJECT 3072: Small Diameter Bomb (SDB)					
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Primary Hardware Development	C/CPFF	McDonnell Douglas Corp St. Louis, MO	4.393	0.000		0.000		0.000		0.000	0.000	4.393	4.393	
Primary Hardware Development	C/CPFF	Raytheon Missile Systems Tucson, AZ	4.393	0.000		0.000		0.000		0.000	0.000	4.393	4.393	
Aircraft Integration	C/CPFF	Lockheed Martin Fort Worth, TX	6.579	13.077	May 2010	9.027	Nov 2010	0.000		9.027	46.344	75.027	75.027	
Primary Hardware Development (JSuW)	C/CPFF	Raytheon Missile Systems Tucson, AZ	2.600	0.000		0.000		0.000		0.000	0.000	2.600	2.600	
Ship Suitability	C/CPFF	McDonnell Douglas Corp St. Louis, MO	7.799	18.278	Dec 2009	4.000	Dec 2010	0.000		4.000	17.079	47.156	47.156	
Primary Hardware Development	C/CPFF	TBD TBD	0.000	2.622	May 2010	10.330	Dec 2010	0.000		10.330	20.659	33.611	33.611	
Aircraft Integration	C/FFP	TBD TBD	0.000	0.000		2.131	Dec 2010	0.000		2.131	11.314	13.445	13.445	
Subtotal			25.764	33.977		25.488		0.000		25.488	95.396	180.625	180.625	
Remarks McDonnell Douglas Corp and Raytheon Missile Systems Primary H/W Development Prior Year through FY09 includes costs for the 42-month risk reduction phase. Funding for McDonnell Douglas represents the Boeing/Lockheed Martin team. Primary H/W and Aircraft Integration TBD in FY10 and out reflects the winning SDB II contractor. FY09 Primary H/W RMS, Tucson, AZ supports the JSuW efforts. Ship suitability efforts for McDonnell Douglas Corp include efforts for BRU-61 Carriage System. Award dates for Primary Hardware Development and Aircraft Integration in FY 2010 have slipped to May to correspond with the SDB II Milestone B decision.														

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Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development	SS/CPFF	McDonnell Douglas St. Louis, MO	5.935	0.000		0.000		0.000		0.000	0.000	5.935	5.935
Software Development	SS/CPFF	Various Various	7.290	0.000		0.000		0.000		0.000	0.000	7.290	7.290
Software Development	WR	NAWC WD China Lake, CA	1.490	0.000		0.000		0.000		0.000	0.000	1.490	Continuing
Software Development	C/CPFF	Lockheed Martin Ft. Worth, TX	0.000	0.000		4.381	Nov 2010	0.000		4.381	13.679	18.060	18.060
Studies & Analyses	C/CPFF	Johns Hopkins University Baltimore, MD	2.695	0.000		0.000		0.000		0.000	0.000	2.695	2.695
Subtotal			17.410	0.000		4.381		0.000		4.381	13.679	35.470	33.980
Remarks Studies and Analyses include Navy activities to define CONOPS and better define Navy-specific and interoperability requirements, such as Weapon Data Link ACTD, Seeker Trade Studies, and Data Link Trade Studies. Software Development efforts are in support of JSuW JCTD incorporation of J.11 Message Set into Strike Weapons. Software Development for JSF is the Block 3.X OFP which supports the SDB II program.													

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**Test and Evaluation (\$ in Millions)**

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various/ Various	Various Various	0.364	2.500	Jan 2010	0.000		0.000		0.000	1.250	4.114	Continuing
Operational Test & Evaluation	WR	COMOPTEVFOR China Lake, CA	0.710	0.300	Oct 2009	0.000		0.000		0.000	8.811	9.821	Continuing
Developmental Test & Evaluation	C/CPFF	Lockheed Martin Ft. Worth, TX	0.000	0.000		1.600	Nov 2010	0.000		1.600	29.187	30.787	30.787
Test Assets	C/FFP	TBD TBD	0.000	0.000		1.674	Jan 2011	0.000		1.674	24.814	26.488	26.488
Test Assets	C/CPFF	McDonnell Douglas St. Louis, MO	0.000	0.000		0.100	Nov 2010	0.000		0.100	0.500	0.600	0.600
<b>Subtotal</b>			1.074	2.800		3.374		0.000		3.374	64.562	71.810	57.875

**Remarks**

Developmental T&E Various in FY2010 supports wind tunnel testing. Test assets include weapon assets (TBD - dependent upon winning SDB II weapon contractor) and BRU-61 Smart Racks (McDonnell Douglas) required for DT and OT.

**Management Services (\$ in Millions)**

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Engineering Services	C/CPFF	TBD Not Specified	0.371	0.767	Jan 2010	0.000		0.000		0.000	0.000	1.138	1.138

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<b>Management Services (\$ in Millions)</b>													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Engineering Support	WR	NAWC WD China Lake	12.839	3.739	Nov 2009	3.095	Nov 2010	0.000		3.095	15.111	34.784	Continuing
Government Engineering Support	WR	Various Various	6.401	2.034	Nov 2009	4.490	Nov 2010	0.000		4.490	19.333	32.258	Continuing
Program Management Support	WR	Various Various	0.681	0.200	Nov 2009	3.063	Dec 2010	0.000		3.063	14.977	18.921	Continuing
Program Management Support - MSS	C/CPFF	Various Various	0.409	0.000		0.000		0.000		0.000	0.000	0.409	0.409
Travel	MIPR	ASC200G Eglin AFB, FL	1.006	0.200	Oct 2009	0.200	Oct 2010	0.000		0.200	1.000	2.406	Continuing
<b>Subtotal</b>			21.707	6.940		10.848		0.000		10.848	50.421	89.916	1.547
<b>Remarks</b>													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			65.955	43.717		44.091		0.000		44.091	224.058	377.821	274.027
<b>Remarks</b>													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy																		DATE: February 2010											
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Fiscal Year		2009				2010				2011				2012				2013				2014				2015			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Acquisition Milestones																													
Risk Reduction Phase																													
Acquisition Milestones						MS B				CDR								MS C											
Source Selection						EMD Downselect																							
Engineering Management and Development (EMD) (Development and Integration)																													
Ship Suitability		Ship Suitability																											
		Dual Power																											
		SDB II Qualification																											
Test & Evaluation Milestones																													
Development Test																													
Operational Test OT will complete FY16																													
Production Milestones																													
LRIP I																		LRIP I Award											
LRIP II																						LRIP II Award							
LRIP III (LRIP III will be first production for DoN - 90 units)																						LRIP III Award							
Production Deliveries (USAF) DoN Production Deliveries begin in FY16 to support FY16 IOC																						LRIP I (144)							
																						LRIP II (250)							

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2011 Navy			<b>DATE:</b> February 2010
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**Schedule Details**

Event	Start		End	
	Quarter	Year	Quarter	Year
Risk Reduction Phase	1	2009	2	2010
Milestone B (MS B)	2	2010	2	2010
Critical Design Review	3	2010	3	2010
EMD Downselect	2	2010	2	2010
Engineering Manufacturing and Design (EMD)	2	2010	4	2015
Ship Suitability	1	2009	3	2009
Ship Suitability Dual Power	3	2009	4	2011
Ship Suitability SDB II Qualification	4	2009	4	2012
Developmental Test	2	2014	2	2015
Operational Test	3	2015	4	2015
MS C	1	2013	1	2013
LRIP I Contract Award (USAF Only)	1	2013	1	2013
LRIP II Contract Award (USAF Only)	1	2014	1	2014
LRIP III Contract Award (USAF and DoN)	1	2015	1	2015
LRIP I Deliveries (USAF only)	2	2014	1	2015
LRIP II Deliveries (USAF only)	2	2015	4	2015

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